

Title (en)
LOCKING COLLAR REMOVAL TOOL

Title (de)
WERKZEUG ZUM ENTFERNEN VON VERRIEGELUNGSRINGEN

Title (fr)
OUTIL POUR ENLEVER UNE BAGUE DE BLOCAGE

Publication
EP 1112151 A1 20010704 (EN)

Application
EP 99946836 A 19990910

Priority
• US 9920706 W 19990910
• US 10006898 P 19980912

Abstract (en)
[origin: WO0015392A1] A tool to remove a locked collar locked to the threaded shaft of a frangible fastener, having a collet (20) with gripping means and inner grasping teeth (23) has a segment removed to permit the collet to decrease in size. An outer cylinder (3) with inner threads are sloped contrary to the threads locking the collar to the fastener shaft and a bottom inner tapered portion (7). An inner cylinder (2) with matching threads and torquing means is torqued with respect to the outer cylinder (3) to translate within the outer cylinder, urging the collet (20) within into inner beveled portion of the outer cylinder thereby closing the collet to surround and grasp the locked collar. While the shaft of the fastener is held, further torquing impacts rational force the collar in an opening direction.

IPC 1-7
B25B 13/48

IPC 8 full level
B25B 13/54 (2006.01); **B23P 19/04** (2006.01); **B25B 13/48** (2006.01)

CPC (source: EP US)
B25B 13/488 (2013.01 - EP US)

Citation (search report)
See references of WO 0015392A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0015392 A1 20000323; AU 5915699 A 20000403; CA 2343121 A1 20000323; CA 2343121 C 20060110; EP 1112151 A1 20010704; JP 2002524293 A 20020806; US 6138530 A 20001031

DOCDB simple family (application)
US 9920706 W 19990910; AU 5915699 A 19990910; CA 2343121 A 19990910; EP 99946836 A 19990910; JP 2000569967 A 19990910; US 37822999 A 19990819